



OIKE

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/724,379

DATE: 04/29/2002  
TIME: 14:35:35

Input Set : A:\7682-055.txt  
Output Set: N:\CRF3\04292002\I724379.raw

*pp 1-3*  
**Does Not Comply  
Corrected Diskette Needed**

4 <110> APPLICANT: Jin, Hong  
5 Tang, Roderick  
6 Li, Shengqiang  
7 Bryant, Martin  
9 <120> TITLE OF INVENTION: Recombinant RSV Expression Systems and Vaccines  
11 <130> FILE REFERENCE: 7682-055-999  
13 <140> CURRENT APPLICATION NUMBER: 09/724,379  
14 <141> CURRENT FILING DATE: 2000-11-28  
16 <150> PRIOR APPLICATION NUMBER: PCT/US98/20230  
17 <151> PRIOR FILING DATE: 1998-09-28  
19 <160> NUMBER OF SEQ ID NOS: 51  
21 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
23 <210> SEQ ID NO: 1  
24 <211> LENGTH: 46  
25 <212> TYPE: DNA  
26 <213> ORGANISM: Artificial Sequence  
28 <220> FEATURE:  
29 <223> OTHER INFORMATION: Oligonucleotide  
31 <400> SEQUENCE: 1  
32 cgacgcataat tacgcgaaaa aatgcgtaca acaaacttgc ataaac  
34 <210> SEQ ID NO: 2  
35 <211> LENGTH: 50  
36 <212> TYPE: DNA  
37 <213> ORGANISM: Artificial Sequence  
39 <220> FEATURE:  
40 <223> OTHER INFORMATION: Oligonucleotide  
42 <400> SEQUENCE: 2  
43 caaaaaaatg gggcaataa gaatttgata agtaccactt aaatttaact  
45 <210> SEQ ID NO: 3  
46 <211> LENGTH: 24  
47 <212> TYPE: DNA  
48 <213> ORGANISM: Artificial Sequence  
50 <220> FEATURE:  
51 <223> OTHER INFORMATION: Oligonucleotide  
53 <400> SEQUENCE: 3  
54 ctagagttaa atttaagtgg tact  
56 <210> SEQ ID NO: 4  
57 <211> LENGTH: 50  
58 <212> TYPE: DNA  
59 <213> ORGANISM: Artificial Sequence  
61 <220> FEATURE:  
62 <223> OTHER INFORMATION: Oligonucleotide  
64 <400> SEQUENCE: 4

*(global error)*  
*insufficient - give source of genetic material*  
*(see item 11 on Error Summary Sheet)*

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50

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65 tatcaaattc ttatttgccc catttttttg gtttatgcaa gtttggtgta      50
67 <210> SEQ ID NO: 5
68 <211> LENGTH: 30
69 <212> TYPE: DNA
70 <213> ORGANISM: Artificial Sequence
72 <220> FEATURE:
73 <223> OTHER INFORMATION: Oligonucleotide
75 <400> SEQUENCE: 5
76 cgcatttttt cgcgtaatat gcgtcggtac      30
78 <210> SEQ ID NO: 6
79 <211> LENGTH: 50
80 <212> TYPE: DNA
81 <213> ORGANISM: Artificial Sequence
83 <220> FEATURE:
84 <223> OTHER INFORMATION: Oligonucleotide
86 <400> SEQUENCE: 6
87 gtattcaatt atagttatta aaaattaaaa atcatataat tttttaaata      50
89 <210> SEQ ID NO: 7
90 <211> LENGTH: 50
91 <212> TYPE: DNA
92 <213> ORGANISM: Artificial Sequence
94 <220> FEATURE:
95 <223> OTHER INFORMATION: Oligonucleotide
97 <400> SEQUENCE: 7
98 acttttagtg aactaatcct aaagttatca ttttaatcct ggaggaataa      50
100 <210> SEQ ID NO: 8
101 <211> LENGTH: 50
102 <212> TYPE: DNA
103 <213> ORGANISM: Artificial Sequence
105 <220> FEATURE:
106 <223> OTHER INFORMATION: Oligonucleotide
108 <400> SEQUENCE: 8
109 atttaaacc taatctaatt ggttttatg tgtattaact aaattacgag      50
111 <210> SEQ ID NO: 9
112 <211> LENGTH: 46
113 <212> TYPE: DNA
114 <213> ORGANISM: Artificial Sequence
116 <220> FEATURE:
117 <223> OTHER INFORMATION: Oligonucleotide
119 <400> SEQUENCE: 9
120 atattagttt ttgacacttt ttttctcggt atagtgagtc gtatta      46
122 <210> SEQ ID NO: 10
123 <211> LENGTH: 25
124 <212> TYPE: DNA
125 <213> ORGANISM: Artificial Sequence
127 <220> FEATURE:
128 <223> OTHER INFORMATION: Oligonucleotide
130 <400> SEQUENCE: 10
131 agcttaatac gactcactat aacga      25

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133 <210> SEQ ID NO: 11
134 <211> LENGTH: 50
135 <212> TYPE: DNA
136 <213> ORGANISM: Artificial Sequence
138 <220> FEATURE:
139 <223> OTHER INFORMATION: Oligonucleotide
141 <400> SEQUENCE: 11
142 gaaaaaaagt gtcaaaaact aatatctcgt aatttagtta atacacatat 50
144 <210> SEQ ID NO: 12
145 <211> LENGTH: 50
146 <212> TYPE: DNA
147 <213> ORGANISM: Artificial Sequence
149 <220> FEATURE:
150 <223> OTHER INFORMATION: Oligonucleotide
152 <400> SEQUENCE: 12
153 aaaccaatta gattagggtt taaatttatt cctccaagat taaaatgata 50
155 <210> SEQ ID NO: 13
156 <211> LENGTH: 50
157 <212> TYPE: DNA
158 <213> ORGANISM: Artificial Sequence
160 <220> FEATURE:
161 <223> OTHER INFORMATION: Oligonucleotide
163 <400> SEQUENCE: 13
164 acttttaggat tagttcacta aaagttattt aaaaaattat atgattttta 50
166 <210> SEQ ID NO: 14
167 <211> LENGTH: 29
168 <212> TYPE: DNA
169 <213> ORGANISM: Artificial Sequence
171 <220> FEATURE:
172 <223> OTHER INFORMATION: Oligonucleotide
174 <400> SEQUENCE: 14
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177 <210> SEQ ID NO: 15
178 <211> LENGTH: 17
179 <212> TYPE: DNA
180 <213> ORGANISM: Artificial Sequence
182 <220> FEATURE:
183 <223> OTHER INFORMATION: Primer
185 <400> SEQUENCE: 15
186 gtttaacacg tggtagag 17
188 <210> SEQ ID NO: 16
189 <211> LENGTH: 17
190 <212> TYPE: DNA
191 <213> ORGANISM: Artificial Sequence
193 <220> FEATURE:
194 <223> OTHER INFORMATION: Primer
196 <400> SEQUENCE: 16
197 acatataggc atgcacc 17
199 <210> SEQ ID NO: 17

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```

200 <211> LENGTH: 17
201 <212> TYPE: DNA
202 <213> ORGANISM: Artificial Sequence
204 <220> FEATURE:
205 <223> OTHER INFORMATION: Primer
207 <400> SEQUENCE: 17
208 gcaaaatgga tccatt                                     17
210 <210> SEQ ID NO: 18
211 <211> LENGTH: 18
212 <212> TYPE: DNA
213 <213> ORGANISM: Artificial Sequence
215 <220> FEATURE:
216 <223> OTHER INFORMATION: Primer
218 <400> SEQUENCE: 18
219 tggttggtat accagtgt                                     18
221 <210> SEQ ID NO: 19
222 <211> LENGTH: 18
223 <212> TYPE: DNA
224 <213> ORGANISM: Artificial Sequence
226 <220> FEATURE:
227 <223> OTHER INFORMATION: Primer
229 <400> SEQUENCE: 19
230 taccaagagc tcgagtca                                     18
232 <210> SEQ ID NO: 20
233 <211> LENGTH: 21
234 <212> TYPE: DNA
235 <213> ORGANISM: Artificial Sequence
237 <220> FEATURE:
238 <223> OTHER INFORMATION: Primer
240 <400> SEQUENCE: 20
241 ggtggcgcgc atggtcccag c                               21
243 <210> SEQ ID NO: 21
244 <211> LENGTH: 20
245 <212> TYPE: DNA
246 <213> ORGANISM: Artificial Sequence
248 <220> FEATURE:
249 <223> OTHER INFORMATION: Primer
251 <400> SEQUENCE: 21
252 tttaccatat gcgctaattg                                  20
254 <210> SEQ ID NO: 22
255 <211> LENGTH: 19
256 <212> TYPE: DNA
257 <213> ORGANISM: Artificial Sequence
259 <220> FEATURE:
260 <223> OTHER INFORMATION: Primer
262 <400> SEQUENCE: 22
263 acgcgaaaaa atgcgtaca                                   19
265 <210> SEQ ID NO: 23
266 <211> LENGTH: 18

```

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TIME: 14:35:35

Input Set : A:\7682-055.txt

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```

267 <212> TYPE: DNA
268 <213> ORGANISM: Artificial Sequence
270 <220> FEATURE:
271 <223> OTHER INFORMATION: Primer
273 <400> SEQUENCE: 23
274 acgagaaaaa agtggcaa 18
276 <210> SEQ ID NO: 24
277 <211> LENGTH: 17
278 <212> TYPE: DNA
279 <213> ORGANISM: Artificial Sequence
281 <220> FEATURE:
282 <223> OTHER INFORMATION: Primer
284 <400> SEQUENCE: 24
285 ctcaccacgt gttaaac 17
287 <210> SEQ ID NO: 25
288 <211> LENGTH: 17
289 <212> TYPE: DNA
290 <213> ORGANISM: Artificial Sequence
292 <220> FEATURE:
293 <223> OTHER INFORMATION: Primer
295 <400> SEQUENCE: 25
296 ggtgcatgcc tatatgt 17
298 <210> SEQ ID NO: 26
299 <211> LENGTH: 19
300 <212> TYPE: DNA
301 <213> ORGANISM: Artificial Sequence
303 <220> FEATURE:
304 <223> OTHER INFORMATION: Primer
306 <400> SEQUENCE: 26
307 aatgggatcc attttgtcc 19
309 <210> SEQ ID NO: 27
310 <211> LENGTH: 19
311 <212> TYPE: DNA
312 <213> ORGANISM: Artificial Sequence
314 <220> FEATURE:
315 <223> OTHER INFORMATION: Primer
317 <400> SEQUENCE: 27
318 aacactggta taccaacca 19
320 <210> SEQ ID NO: 28
321 <211> LENGTH: 20
322 <212> TYPE: DNA
323 <213> ORGANISM: Artificial Sequence
325 <220> FEATURE:
326 <223> OTHER INFORMATION: Primer
328 <400> SEQUENCE: 28
329 acattagcgc atatggtaaa 20
331 <210> SEQ ID NO: 29
332 <211> LENGTH: 2165
333 <212> TYPE: PRT

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/724,379

DATE: 04/29/2002

TIME: 14:35:36

Input Set : A:\7682-055.txt

Output Set: N:\CRF3\04292002\I724379.raw

# Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: 09/224,379
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE		
1 _____ Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2 _____ Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3 _____ Misaligned Amino Numbering	The numbering under each 5 <sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.	
4 _____ Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.	
5 _____ Variable Length	Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
6 _____ PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	
7 _____ Skipped Sequences (OLD RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped  Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.	
8 _____ Skipped Sequences (NEW RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000	
9 _____ Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.	
10 _____ Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence	
11 _____ Use of <220>	Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)	
12 _____ PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 _____ Misuse of n	n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.	



05-90  
0425

## **RAW SEQUENCE LISTING** **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/724,379  
Source: OIPE  
Date Processed by STIC: 4/29/2002

**THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.**

**PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:**

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

**FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.**

**FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.**

**PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)**

**PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)**

**TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:**

**<http://www.uspto.gov/web/offices/pac/checker>**

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:  
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7<sup>th</sup> Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202  
Or  
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202